IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent of) Attn: Certification Of Corrections	
Jun-ichi Yoshida et al.)	
Patent No.: 6,710,135))	
Issued: March 23, 2004))	
Title: RESIN COMPOSITION AND USE THEREOF)))	
REQUEST FOR CERTIFICATE OF CORRECTION		
Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450		
Sir: Issuance of a Certificate of Correction for	the above-captioned patent is respectfully	
requested in accordance with the accompanying	•	
	100 is authorized to be:	
charged to Deposit Accoun	it No. 02-4800; or	
Charge to credit card.		
\square It is believed that payment of a fee	is unnecessary.	
The reasons for the Request are s	et forth in the attached sheet.	
The Director is hereby authorized to charg	ge any appropriate fees under 37 C.F.R.	
§ 1.20(a) that may be required by this paper, and	to credit any overpayment, to Deposit	
Account No. 02-4800.		
Respectfully	submitted,	
Buchanan II	NGERSOLL & ROONEY PC	
, , , , ,	t G. Mukai ration No. 28531	
Customer No. 21830		

Customer No. 21839 703 836 6620

REASONS FOR REQUEST FOR CERTIFICATE OF CORRECTION

The original claims of the application that issued as U.S. Patent No. 6,710,135 recited, *inter alia*, a defined amount of "a polyalkylene carbonate (B) of the following formula (I)". In the first Official Action, the Examiner rejected certain claims, but only objected to claims 3-8 and indicated that such claims would be allowable if rewritten in independent form. Dependent claims 3 and 8 recited that the polyalkylene carbonate was polyethylene carbonate. In the response to the Official Action, claim 1 was amended to recite "a polyethylene carbonate (B)" and formula (I) was also amended. However, the definition of "m" was inadvertently left as being the original range of 1 to 15. Claims 3 and 8 were canceled.

By the instant Request for Certificate of Correction, the value of "m" is now being recited as being "1" which is consistent with the recitation of "a polyethylene carbonate (B)". In this regard, attached hereto is a Material Data Sheet for QPAC® 25 which shows that the repeating formula is $(C_3H_4O_3)_n$. In formula (I) of claim 1, R is the ethylene portion which is C_2H_4 . It can be understood that when "m" is 1, the formula (I) is the same as that in the Material Data Sheet. Thus, it is clear that the instant Request for Certificate of Correction does not raise any new question of new matter and is proper in all respects.

Should there by any questions concerning any aspect of this matter, the attorney of record can be contacted at the number provided above.



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Effective Date: November 1991 Revision Date: May 2009 Date Printed: 5/11/2009

MATERL

SECTION 1 - CHEMICAL PRO

Material Trade Name: QPAC® 25 Product/Chemical Name: Poly(ethyle: Chemical Family: Aliphatic Polycarb

Manufacturer:

Empower Materials 91 Lukens Drive, Suite E New Castle, DE 19720

ETY DATA SHEET

T AND COMPANY IDENTIFICATION

onate)

Emergency Telephone Numbers: Chemtrec 1-800-424-9300 U.S.

1-703-527-3887 International

SECTION 2 - COMPOSITION /

Ingredient (s) Poly(ethylene carbonate) (C₃H₄O₃)_n Ethylene carbonate Methylene Chloride

RMATION ON INGREDIENTS

IS Number	%	
	94+ %	
16-49-1	0-5%	
5-09-2	0.2-1.0 %	

SECTION 3 - HAZARDS IDEN'

EMERGENCY OVERVIEW

Appearance: Clear to slight tan pellets

Odor: No Odor

 Avoid contact with eyes, skin or clot powder. Do not swallow. Wear safe

 Wash thoroughly after handling, Use under fire conditions.

 During emergencies, wear equipmen and run-off from entering sewer or w

ATION

e to off-white granulates or powder

twoid breathing dust or vapor from granulates or es and latex gloves.

dequate ventilation. May produce hazardous gases

tect eyes, skin and respiratory tract. Prevent material ys. Consult the Material Safety Data Sheet.

Potential Health Effects

Skin

Contact may cause mild irritation

Eyes

Polymer dust is mildly irritating t

yes. Treat as a nuisance dust and avoid eye contact.

Inhalation

Polymer dust causes discomfort i

d. Treat as a nuisance dust and avoid inhalation

Ingestion

Ingestion of product may cause n

nd vomiting.

Conditions aggravated by exposure

No human or animal health effectinformation on polymers of molecular w

are known to exist. However, available toxicity 300 or greater suggests they have low toxicity.

May contain 0.2 - 1.0% methylene chlor carcinogen. ACGIH has published a TL

tre methylene chloride is a suspected human ppm (1993)

SECTION 4 - FIRST AID MEAS

Eye Contact

Immediately flush with large qua occasionally. Call a physician.

of water for 15 minutes while holding back eyelids

Skin Contact

In case of skin contact, wash with

ind water.

SURES

S

Ingestion

In case of ingestion have victim a conscious. Call a physician.

rge quantities of water and induce vomiting if

Inhalation

Immediately remove victim to fit

If breathing becomes difficult, call a physician.

SECTION 5 - FIRE FIGHTING

. _

Flammable Properties

Flash Point:

NΑ

Auto ignition Temperature:

N/I

Explosion Limits

Lower:

 N/ℓ

Upper:

N/#

Extinguishing Media

Poly(ethylene carbonate) is a conthe material, such as water spray,

e solid. Choose extinguishing media suitable for emical, alcohol foam or carbon dioxide.

Empower Materials

QPAC 25

Page 2 of 2

Unsuitable Extinguishing Media

No restrictions on media based or

edge of this material.

Special Fire Fighting Instructions

None required

SECTION 6 - ACCIDENTAL RI

SE MEASURES

Spills, Leak and Disposal

- Incinerate under controlle
- Dispose in approved land:
- Observe governmental spi

For spills and leaks, wear chemic coveralls. Contain spills and plac contaminated clothing before reu up is complete. tions, and proper ventilation.

vater-quality regulations.

y goggles, chemical resistant gloves, and apron or approved D.O.T. container and seal. Wash all rilate area and clean spill site after material clean

Large Spills

For larger spills requiring emerge Follow OSHA regulations and NI 1910.134 and NIOSH Pub. 87-10 Contain spills and place in an appellothing before reuse. Ventilate a ponse, respiratory protection may also be required, a commendation for respirator use (see 29 CFR smergency response (see 29 CFR 1910.120).

3.O.T. container and seal. Wash all contaminated clean spill site after material clean up is complete.

SECTION 7 - HANDLING / STC

E

Handling

Avoid contact with eyes, skin or and gloves. Wash thoroughly aftercommended especially when us

. Do not swallow. Wear chemical safety goggles ling. General ventilation during normal use is termal processing and spray applications.

Storage

Store in a cool and dry area. To p store in a refrigerator. agglomeration of pellets, granulates, or powder,

Incompatability

- Incompatible with strong oxid
- Temperature above 150 °C

gents

SECTION 8 - EXPOSURE CON

L AND PERSONAL PROTECTION

Ventilation

Local, mechanical exhaust ventil processing or spray applications. methylene chloride vapor concer commended especially when used in thermal areas must be well ventilated to maintain the below 50 ppm.

Personal Protective Equipment

Safety glasses and gloves.

Respiratory Protection

If excessive dusting occurs, wear

I/MSHA approved dust/mist respirator.

Skin Protection

Chemical resistant gloves and ap

Eye Protection

Safety glasses during normal use provided in work area.

vash fountain and emergency shower should be

SECTION 9 - PHYSICAL AND

Appearance:

Clear to slight tan

or white to off-white granulates or powder

MICAL PROPERTIES

Odor:

No odor

Boiling Point:

Decomposes abov

(356 °F)

Melting Point:

NA

Specific Gravity:

1.38 - 1.42 (H₂O):

% Volatile by Vol.: Less than 5 weigh

Vapor Pressure:

NA

Solubility in Water: Insoluble

pH Value:

NA

SECTION 10 - STABILITY ANI

CTIVITY

Stability

Stable.

Hazardous Polymerization

Does not occur

Hazardous Decomposition Products

Ethylene carbonate when burned irritating aldehydes, acids and ket conditions of decomposition or comaterials and/or environment of comparisons.

m toxic levels of carbon monoxide, carbon dioxide, Other hazardous products may occur under on, and/or result from interaction with other osition or combustion.

Materials and Conditions to Avoid

Keep away from excess heat and decomposition, the polymer decordecomposition of the polymer and carbon dioxide, and other unknow ethylene oxide causes tumors in a Administration (OSHA) Permissi an eight-hour time weighted average.

stures above 150°C. During the initial mild primarily to ethylene carbonate. Further sylene carbonate can produce ethylene oxide (EO), rials both gaseous and solid. There is evidence that ry animals. The Occupational Safety and Health osure Level (PEL) for ethylene oxide is 1 ppm for osure.

SECTION 11 - TOXICOLOGIC

FORMATION

Product Information

LD50 (oral, rat)

No Data Available

Acute Overexposure

No data is available on the health

of chronic exposure to this product.

Chronic Overexposure

No other effects besides those ass

with acute exposure.

Ingredient information

No other information.

SECTION 12 - ECOLOGICAL E

Ecotoxicity Data

No Data Available

MATION

SECTION 13 - DISPOSAL CON

RATIONS

Hazardous Waste Characteristic

None

Recommendation

Dispose of contaminated product or leaks in a manuer approved for regulatory agencies to ascertain; effluent to the sewer may require systems.

r containers and materials used in cleaning up spills naterial. Consult appropriate federal, state and local lisposal procedures. Discharge of processing nit. DO NOT discharge effluent solutions to septic

SECTION 14 - TRANSPORTAT

INFORMATION

Ground Shipping Information DOT Proper Shipping Name None

Non-Hazardous for Transport

This substance is considered to b

<u>Air (ICAO/IATA) Shipping Informati</u> Proper Shipping Name

None

Non-Hazardous for Air Transport
This substance is considered to b

International Maritime Organization |
IMDG Code

Not Applicable

Amdt. Code

Not Applicable

HTS Code

Not Applicable

azardous for transport.

azardous for air transport.

Additional Shipping Class

SECTION 15 - REGULATORY

U.S. FEDERAL REGULATIONS

SARA LISTED: No

TSCA Inventory Item: No-Research at

RMATION

elopment Exemption: TSCA 15 U.S.C. ¶2604(h) (3)

SECTION 16 - OTHER INFORT

It is believed that the herein contained in hazard communication independent of at There is no claim made regarding an impumpose or merchantability by the inform available data sheets for our products, widistribute, or use. You should advice the contained information.

User should consult his legal advisor or or effect of any regulation or law regardithese matters.

<u>on</u>

ion is accurate. It is provided for the purpose of of the product, as part of our product safety program. It is provided for the product safety program. It is product, which is the product. We make a true you to obtain for the products you buy, process, it may come in contact with our products of the herein

copriate government agency to establish applicability product. We do not undertake to provide advice on